
ABSTRACT

1 A resistivity sub including a resistivity sensor forms part of a bottom hole drilling
2 assembly. The sensor is maintained at a substantially fixed offset from the wall of a
3 borehole during drilling operations by, for example, a stabilizer. In WBM, galvanic
4 sensors may be used, with or without commonly used focusing methods, for obtaining a
5 resistivity image of the borehole wall. In OBM, capacitive coupling may be used. The
6 apparatus is capable of using other types of sensors, such as induction, MPR, shielded
7 dipole, quadrupole, and GPR sensors.